JVC

SERVICE MANUAL

MODEL
JT-V310
STEREO TUNER

No. 2354
MARCH 1975

Features

* Phase Locked Loop MPX Circuit gives high performance of stereo separation and high stability & reliability against ambient temperature or mechanical stresses.
* 2 meters, FM zero center and signal strength, wide deflection of indication makes accurate tuning.
* 3 high integration ICs are employed in FM IF, FM MPX, and AM circuits and give high performances and high reliability.
* Well designed FM frontend circuit makes high performance against intermodulation, cross-modulation, and other interferences.
* Muting circuit eliminates unwanted interstation noise and makes good feeling of tuning.

Specifications

DIMENSION

High : 4-3/4" (121mm) Width : 15-3/4" (400mm) Depth : 11-13/16" (300mm)

WEIGHT

Net : 4.5 kg (9.9 lbs) Gross : 5.2 kg (11.4 lbs)

TYPE	:	FM AM STEREO TUNER
FET	:	1
IC	:	3
TRANSISTOR	:	7
DIODE	:	3
FM SECTION		
Tuning Range	:	88~108MHz
Sensitivity	:	2.0μV
Total Harmonic Distortion	:	0.2% (MONO) 0.5% (STEREO) 1kHz, 100% MOD
Signal to Noise Ratio	:	70dB
Selectivity	:	60dB
Capture Ratio	:	1.5dB
Image Rejection	:	55dB
IF Rejection	:	65dB
Spurious Signal Rejction	:	80dB
Stereo Separation	:	40dB (1kHz) 30dB (10kHz) 35dB (100Hz)
AM Suppression	:	50dB
Sub Carrier Suppression	:	60dB
SCA Carrier Suppression	:	70dB
Stereo Auto Switching Level	:	4.0μV
Muting Level	:	4.0μV
Frequency Response	:	30Hz~12kHz +0.2,-1.0dB
De Emphasis	:	"U" Type – 75μSec "A","E","F" Type – 50μSec
Output Level	:	Min. 1.0V (HIGH), Min. 0.4V (NORMAL) 400Hz 100% MOD.
AM SECTION		
Tuning Range	:	525kHz~1605kHz
Sensitivity	:	50μV 300μV/m
Signal to Noise Ratio	:	50dB
Total Harmonic Distortion	:	0.5%
Selectivity	:	30dB
Image Rejection	:	45dB
IF Rejection	:	45dB
Output Level	:	Min. 1.0V (HIGH) Min. 0.4V (NORMAL)

POWER SUPPLY : "U" Type – 100,120,220,240V (Selectable) 50Hz/60Hz
"E" Type – 220V 50Hz
"A" Type – 240V 50Hz
"F" Type – 100,120,220,240V (Selectable) 50Hz/60Hz

POWER CONSUMPTION : 8W

Caution

1. JT-V310 has five versions intended to different countries that have specific voltages, these are:

TYPE	AREA	LINE VOLTAGE	DE EMPHASIS
"A"	England, Australia	240V 50/60Hz	50μSec
"E"	Sweden	220V 50/60Hz	50μSec
"E"	Switzerland	220V 50/60Hz	50μSec
"F"	Europe	100,120,220, 240V 50/60Hz	50μSec
"U"	Other areas		75μSec

This tuner has been pre-set to the line voltage in the area where it is to be sold. See page 17 to fuse replacement and page 8 to voltage selection.

2. Do not operate the tuner using a voltage more than 10% of the specified voltage, for the power supply transformer shall have become damaged as well as shall have the related component parts as transistors, capacitors, and resistors, too.
3. Avoid the place where the vibrations, from the speakers, are transfered, directly, to the tuner and don't choose a place that is moist or dusty.
4. Move the AM bar antenna as far as possible from the AC cord or signal cord or there shall be excessive noise. Do not lift up the JT-V310 while holding the bar antenna.
5. Do not place this tuner upon your amplifier as it may pick up the hum from the power transformer.

Main Parts Arrangement

Dwg. No.	Parts No.	Parts Name	Description
1	QSU1120-006	Lever Switch	POWER "U","F" Type
1	QSL2235-101	"	POWER "E" Type,
1	"	"	"A" Type
2	E49642-003	Push Knob	HI-BLEND Push sw. knob
3	"	"	MUTING "
4	"	"	FM AUTO "
5	"	"	FM MONO "
6	"	"	AM "
7	E49643-005	Tuning Knob	TUNING knob
8	TXX-5B	C.B. Ass'y	"U" Type
8	TXX-5C	"	"A","E","F" Type
9	EQ3042-16B	Power Trans	
10	EQ3176-018	Tuning Meter	FM TUNING (Center meter)
11	EQ3176-019	Signal Meter	SIGNAL
12	QMC9005-001	V.S. Plug	"F","U" Type

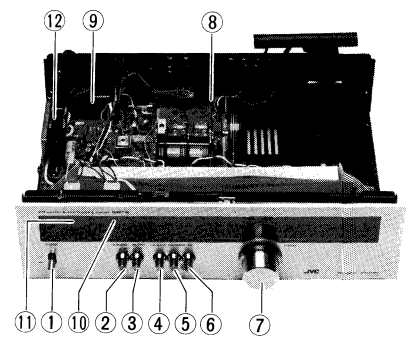


Fig. 1

Dwg. No.	Parts No.	Parts Name	Description
1	EQ3572-002	Terminal Ass'y	FM, AM, ANT.
2	EQ3591-41B	Pin Jack	Output terminal
3	E49876-001	Label	"
4	E21665-003	Rear Panel	
5	E33068-001	Bar Ant Case	
6	E47330-158	Rating Label	"F","U" Type
6	E47330-159	"	"E" Type
6	E47330-160	"	"A" Type
7	E21666-003	Front Panel	
8	E47432-003	T. Shaft Ass'y	
9	EQ3546-006	FM Front End	

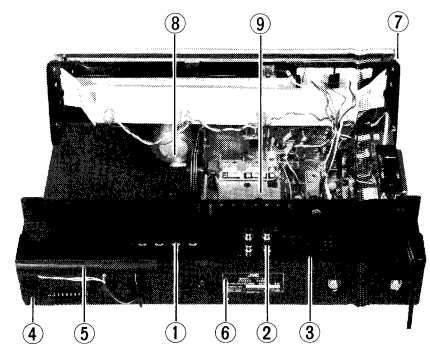


Fig. 2

Disassembly Instructions

TO REMOVE TOP COVER

Remove four screws from both sides of top cover, and remove cover in the direction of top (See Fig. 3).

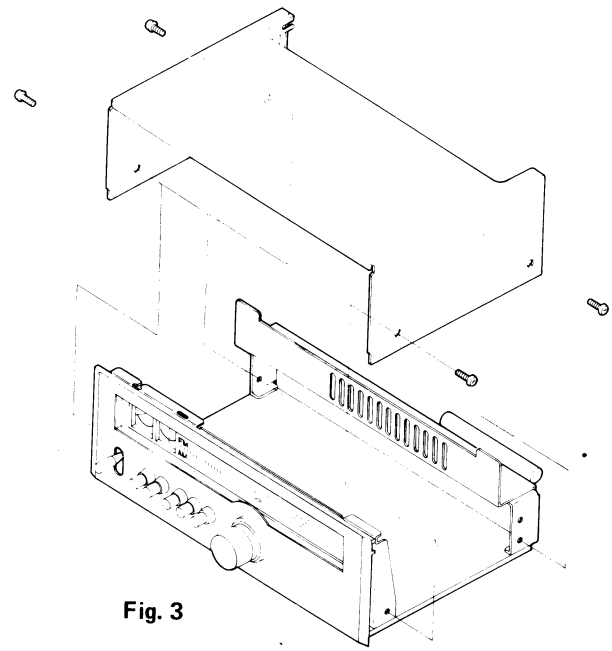
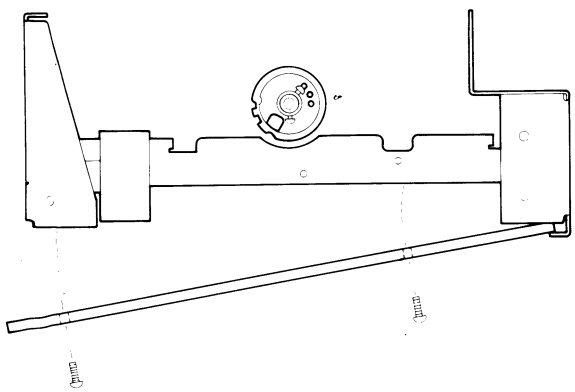


Fig. 3

TO REMOVE BOTTOM BOARD

Remove three screws from bottom board.
Remove bottom board from chassis (See Fig. 4).



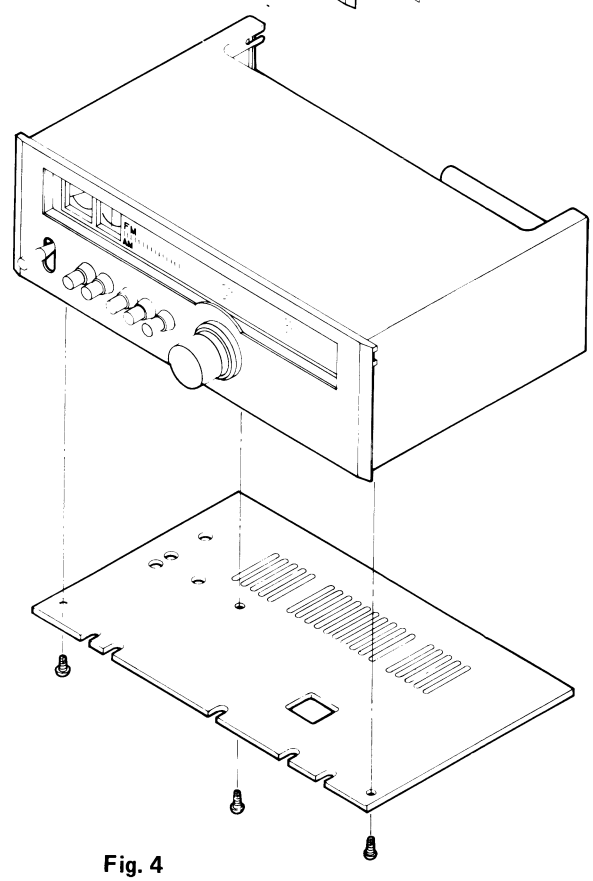


Fig. 4

TO REMOVE FRONT PANEL

1. Remove top cover.
2. Remove TUNING knob.
3. Remove two screws as shown in Fig. 5, and remove front panel from chassis, with care to avoid damage.

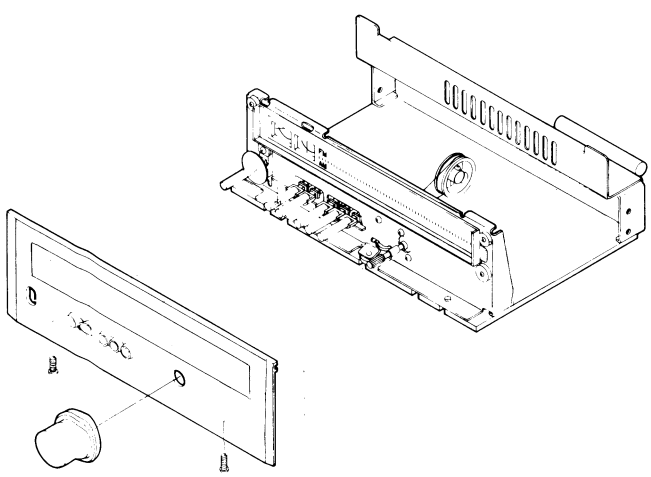


Fig. 5

How to Replace Main Parts

1. Remove front panel as inscribed before. So power switch can be simply replaced as illustrated in Fig. 6.
2. To replace the signal and tuning meters, remove the respective meter's clip as shown in Fig. 6.
3. To replace the pilot lamp, pull the pilot lamp socket from the tuner, and, remove the bulb from the reflector. Replace the pilot lamp bulb as shown in Fig. 6.
4. To replace the push knob, pull it from the panel of the tuner as shown in Fig. 6.
5. To replace the dial scale, remove the plastic rivets, then, remove the dial scale from the front and replace it.

   To fix a dial scale to the front bracket, again, stick the double face tape on the back of the dial scale and secure it.
6. Replace tuning shaft assembly, reflector, halation sheet and etc., as shown in Fig. 6.
7. Remove the plastic rivets and replace the terminal as shown in Fig. 7.
8. While replacing the power transformer, bar antenna case and bar antenna coil, use Fig. 7.
9. Use Fig. 7 to remove screws 'A', and, then, screws 'B'. Now, replace the pin jack which, slightly, inclines at the upper side of the rear panel to the left.

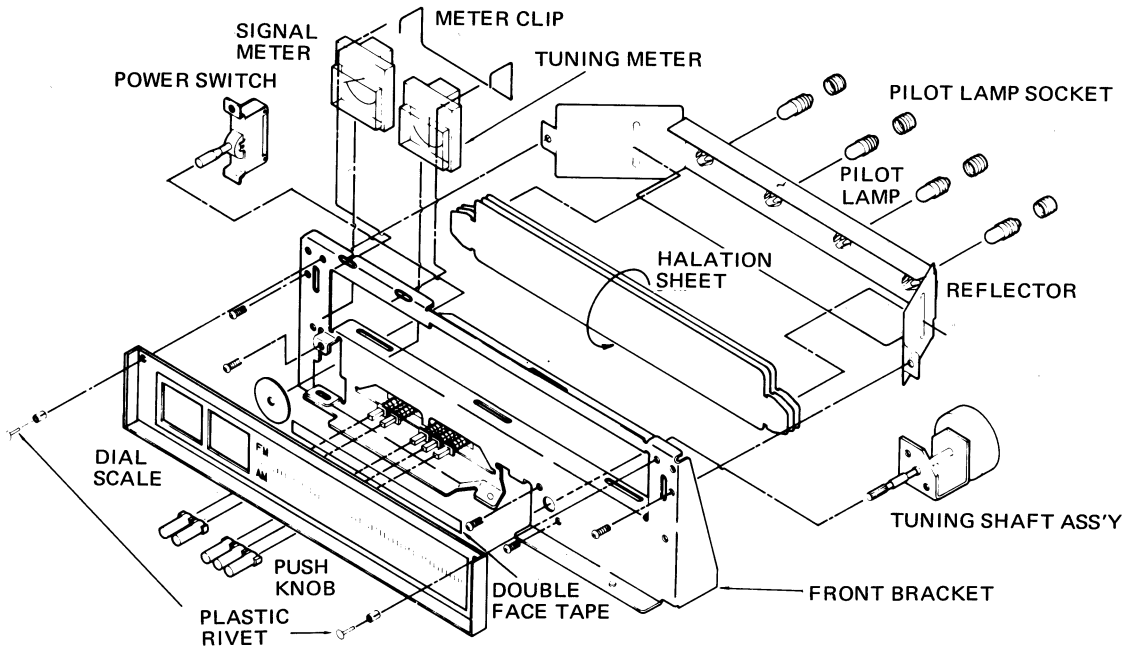


Fig. 6

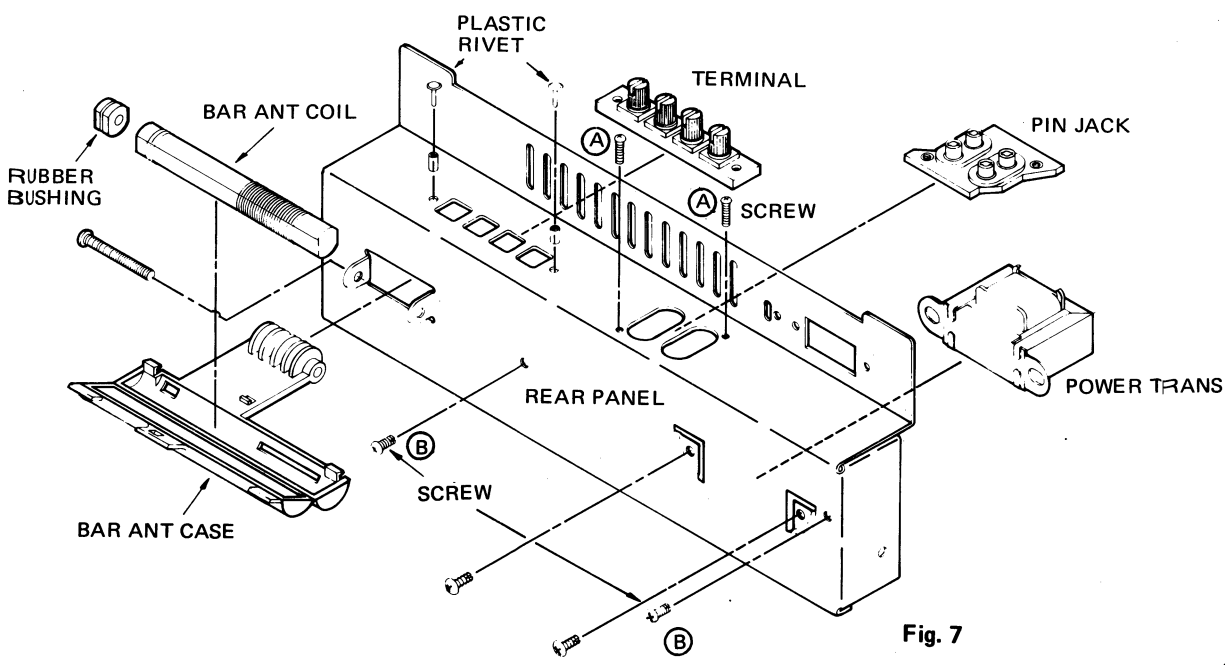


Fig. 7

Tuner Alignment Instructions

ALIGNMENT POINT

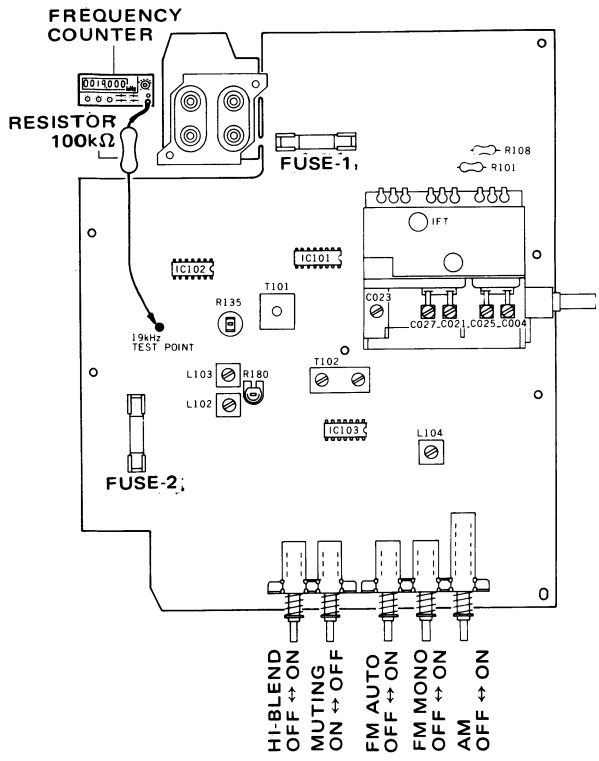


Fig. 8

CIRCUIT BOARD NO.	TYPE	LINE VOLTAGE
TXX-5B	"U" TYPE	100,120,220,240V
TXX-5C	"F" TYPE EUROPE	100,120,220,240V
TXX-5C	"E" TYPE EUROPE	220V
TXX-5C	"A" TYPE AUSTRALIA	240V

TYPE	LINE VOLTAGE	FUSE-1	FUSE-2
"U" TYPE OTHER AREAS	100,120V	1.2A	0.25A
	220,240V	1.2A	0.2A
"F" TYPE EUROPE	100,120, 220,240V	1.25AT	315mAT
"E" TYPE EUROPE	220V	1.25AT	315mAT
"A" TYPE AUSTRALIA	240V	1.25AT	315mAT

AM ALIGNMENT

CONNECTION

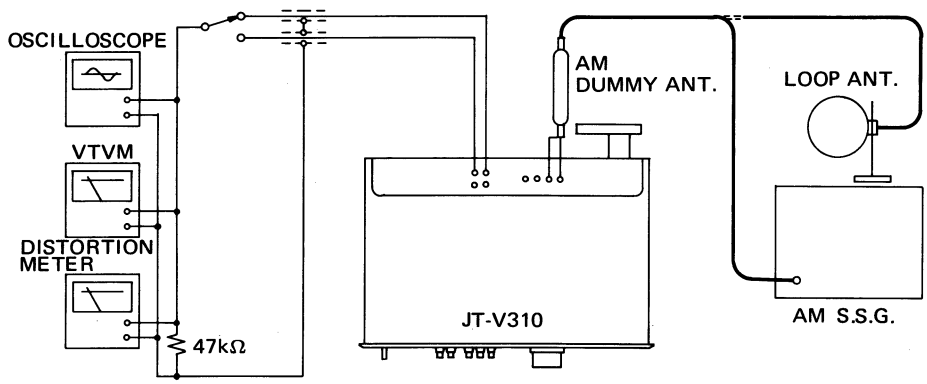


Fig. 9

ALIGNMENT

STEP	GENERATOR FREQUENCY	DIAL SETTING	ADJUST	REMARKS
1	600kHz	600kHz (40.5mm 1-9/16" from Starting Point)	L104 BAR ANT. COIL	Lock tuning gang. Adjust for maximum output.
2	1400kHz	1400kHz (163.0mm 6-7/16" from Starting Point)	C027 C025	Lock tuning gang. Adjust for maximum output.
3	1000kHz	1000kHz (118.2mm 4-5/8" from Starting Point)		Check dial scale. Repeat steps 1 through 2.

Dial Stringing Guide

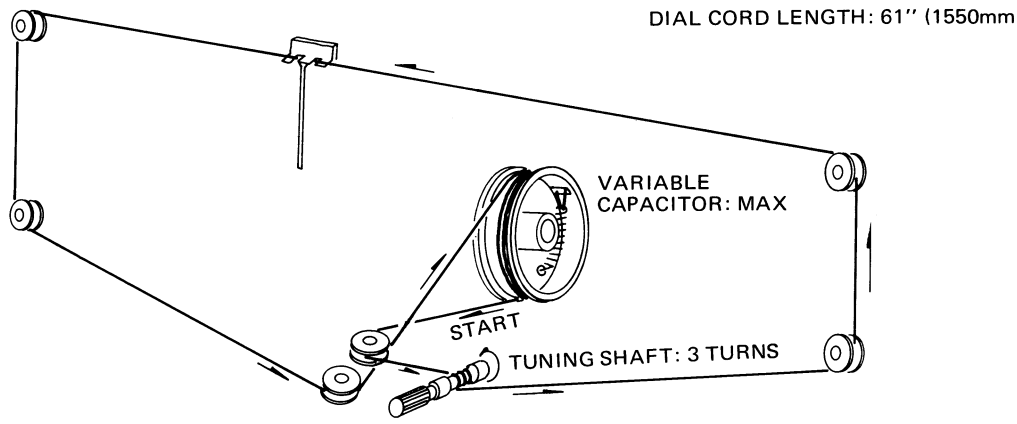


Fig. 11

Voltage Changeover (JT-V310 U & F)

1. Remove the four screws from the cabinet cover.
2. Remove the cabinet cover from the chassis.
3. The voltage select plug is located at the conner of the chassis. Remove this select plug and change the position of it so that the arrow points to the required voltage.
4. Replace the safety fuse as well as with one of appropriate capacity.

AC LINE VOLTAGE	FUSE-2	
	"U"	"F"
100–120V	0.25A	315mAT
200–240V	0.2A	315mAT

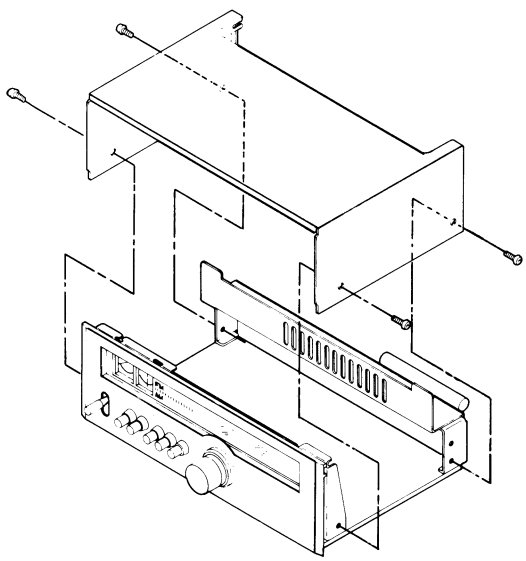


Fig. 12

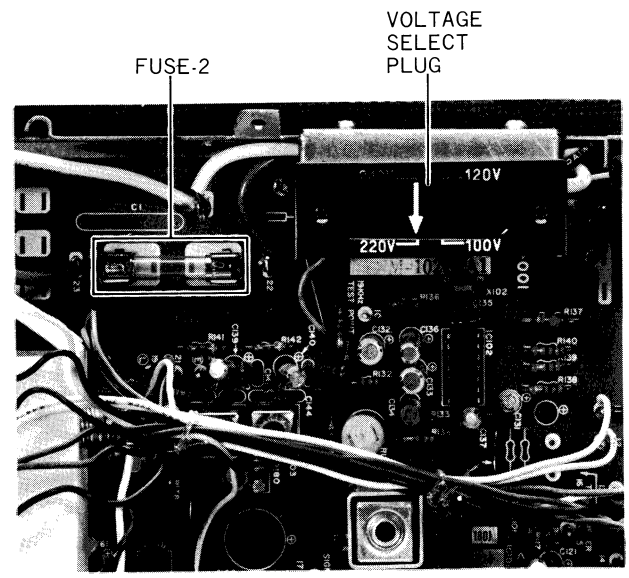


Fig. 13

FM ALIGNMENT

CONNECTION

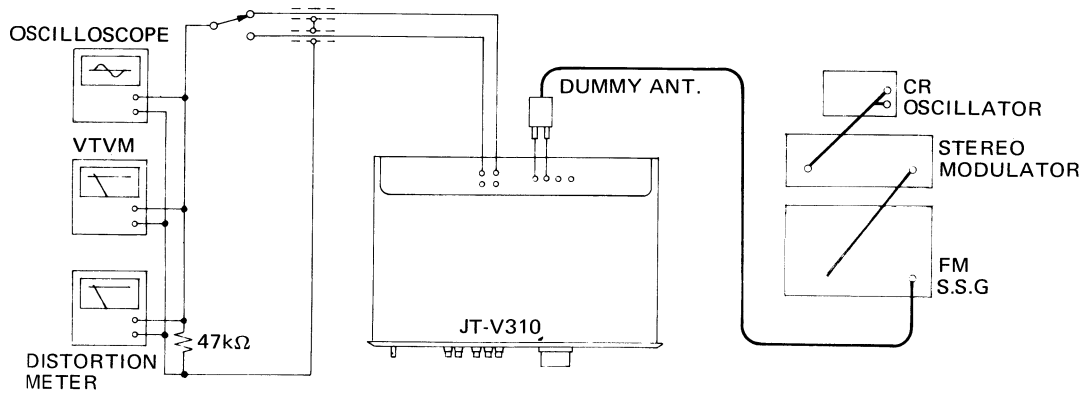


Fig. 10

RF ALIGNMENT

STEP	GENERATOR FREQUENCY	DIAL SETTING	ADJUST	REMARKS
1	108MHz (400Hz,30% Mod.)	108MHz (Distance from start point: 180.7mm, 7-1/8")	C023 C021, 004	Lock tuning gang. Adjust for maximum output.
2	88MHz (400Hz,30% Mod.)	88MHz (Distance from starting point: 8mm, 5/16")		Check dial scale.
3	98MHz (400Hz,30% Mod.)	98MHz (Distance from start point: 89mm, 3-1/2")		Check dial scale. Repeat steps 1 through 2.

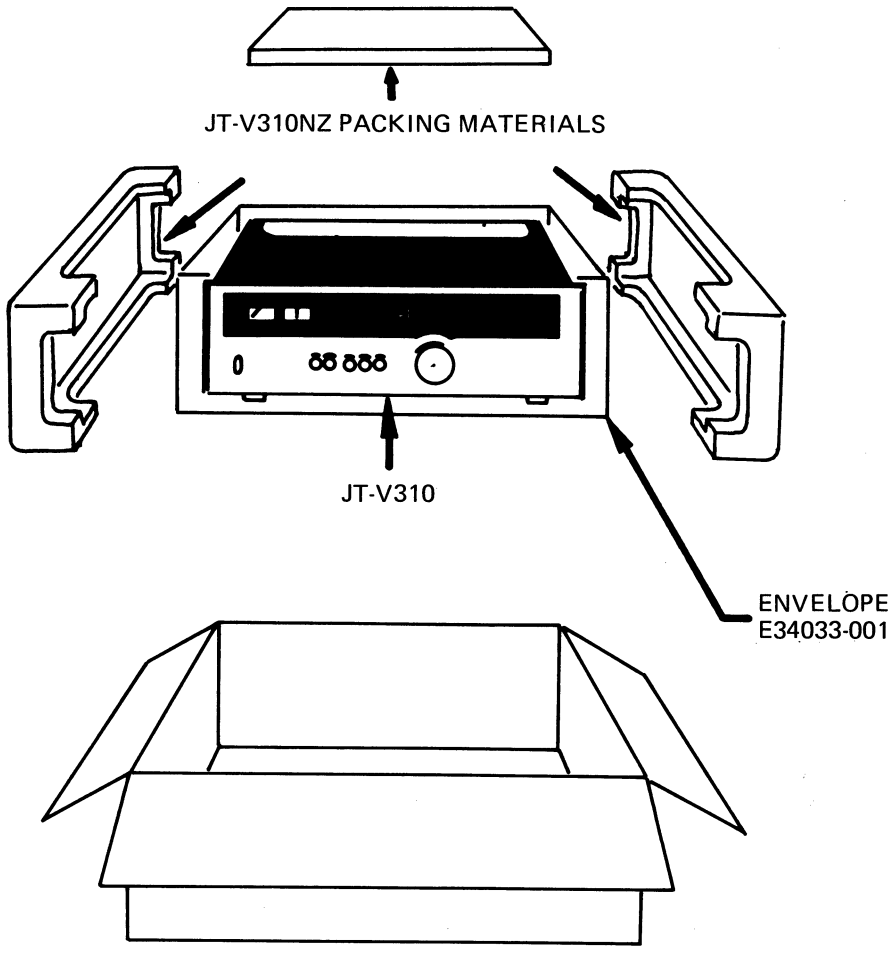
ADJUSTING CENTER METER & DISTORTION

1. Tune to a frequency where there is no broadcast.
2. Adjust the lower core of T101 so that the FM TUNING METER indicate "0".
3. Set the FM S.S.G. with 400Hz modulation and 75kHz deviation (MONO) to 98MHz.
4. Tune to 98MHz.
5. Adjust the upper core of T101 so that the DISTORTION METER is minimized.

ADJUSTING MPX. VCO & SEPARATION. (Set JT-V310 to FM AUTO position)

1. Connect the frequency counter to tab No. 10 (TEST POINT 19kHz) with 100kΩ resistor.
2. Adjust R135 so that the counter indicates 19kHz. STEREO MODULATOR pilot signal (19kHz): OFF
3. Switch stereo modulator's selector to left.
4. Adjust R180 so that right channel output is minimized.
5. Switch stereo modulator's selector to right.
6. Adjust R180 so that left channel output is minimized.
7. If the separation of right and left are different, set R180 to average.

Packing Instructions



JT-V310PK CARTON CASE

Fig. 14

Exploded View

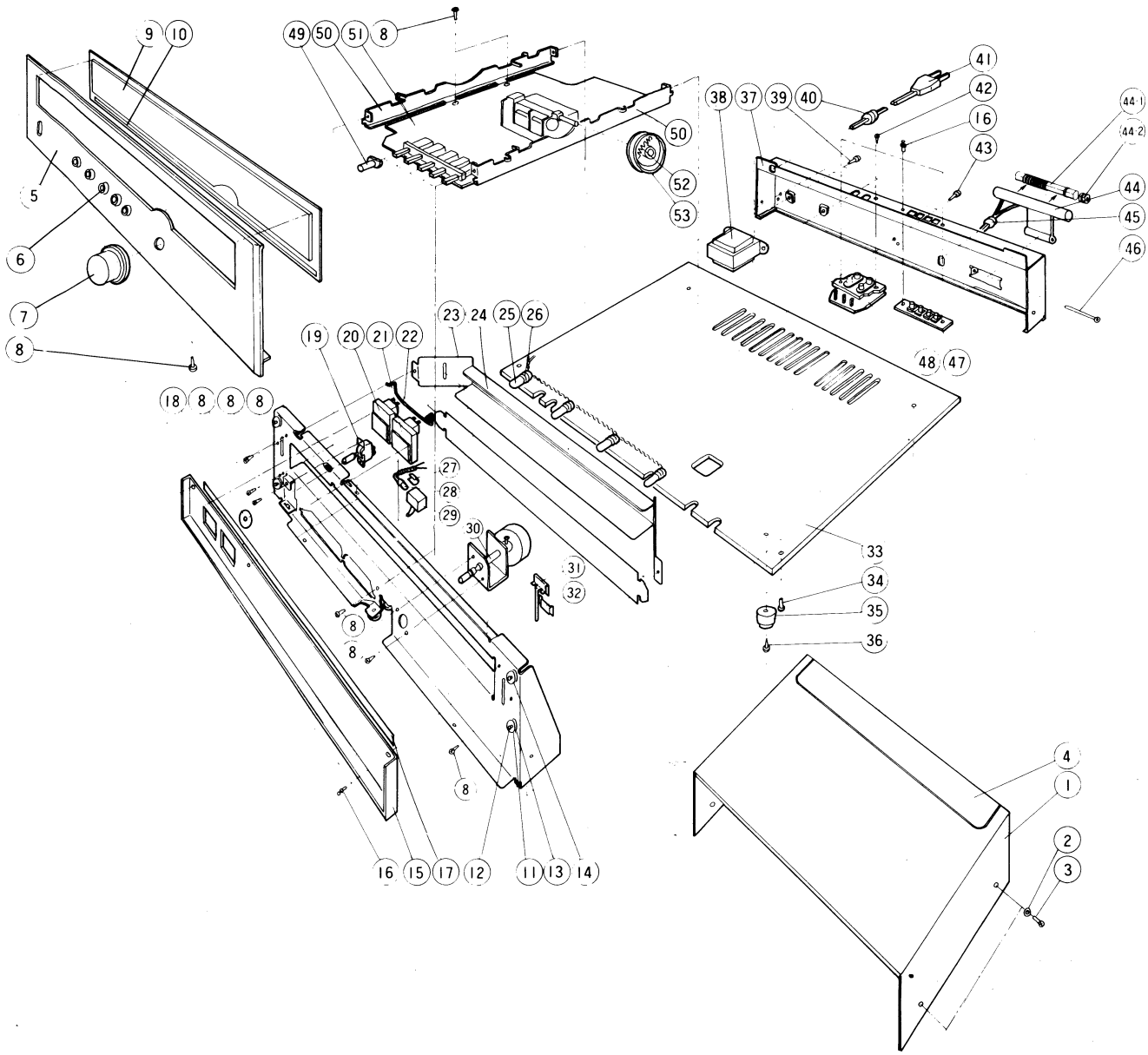


Fig. 15

Ref. No.	"U" TYPE	"F" TYPE	"E" TYPE	"A" TYPE
19	QSL1120-006	QSL1120-006	QSL2235-101	QSL2235-101
40	E31704-003	E31704-003	E31704-003	E31704-002
41		E03229-001	E03544-001 (SEMCO)	
41	QMP1200-244 (U.S.A. Type)		QMP3800-240 (SEV)	E03511-001
51	TXX-5B	TXX-5C	TXX-5C	TXX-5C

List of Parts for Replacement

Ref. No.	Parts No.	Parts Name	Discription
1	E21669-001	Top Cover	
2	WAS4000N	Washer	
3	SDSP4008RS	Screw	
4	E21670-001	Terminal Cover	
5	E21666-003	Front Panel	
6	E49640-003	Escutcheon	
7	E49643-005	Tuning Knob	
8	SBSB3008Z	Screw	
9	E33909-001	Front Scale	
10	E40923-4	Double Face Tape	
11	E21662-002	Front Bracket	
12	E49447-001	Shaft	
13	E45017-001	Roller	
14	E45020-001	Roller	
15	E21663-003	Dial Scale	
16	E48729-001	Plastic Rivet	
17	E40923-8	Double Face Tape	
18	E45979-012	Spacer	
19		Lever Switch	(See Page 10. Ref. No. 19)
20	E03176-019	Signal Meter	(SIGNAL)
21	E03176-018	Tu. Meter	(FM TUNING)
22	E49635-001	Meter Clip	
23	E33906-002	Halation Sheet	
24	E21664-001	Reflector	
25	QLP1001-004J	Pilot Lamp	8V 150mA
26	50689	P.L. Socket	
27	E46855-001	Color Screen	
28	QLP3104-101	Lamp Ass'y	6V 35mA
29	E49636-002	Indicator	
30	E47432-003	T. Shaft Ass'y	
31	E49637-001	Needle	
32	E49638-002	Spacer	
33	E21668-001	Bottom Board	
34	SBSB3010M	Screw	
35	QZF2112-001	Foot	
36	SBSA3012Z	Screw	
37	E21665-003	Rear Panel	
38	E03042-16B	Power Trans	
39	SBSB4008N	Screw	
40		Cord Stopper	(See Page 10. Ref. No. 40)
41		Power Cord	(See Page 10. Ref. No. 41)
42	SPSP3008MS	Screw	
43	SBSB3008M	Screw	
44	E33068-001	B. ANT. Case	
44-1	E03037-30	Bar Ant. Coil	
44-2	E43603-003	Rubber Bushing	
45	E31704-003	Cord Stopper	For B. Ant. Coil Wire
46	SPSP4045MS	Screw	
47	E03572-002	Terminal Ass'y	For Ant.
48	E03591-41B	Pin Jack	
49	E49642-003	Push Knob	For Push Switch
50	E33907-002	Support Bracket	
51		C.B. Ass'y	(See Page 10. Ref. No. 51)
52	E49698-001	Spring	
53	E33821-001	Dial Drum Ass'y	

TXX-5 B. C. C. B. Ass'y

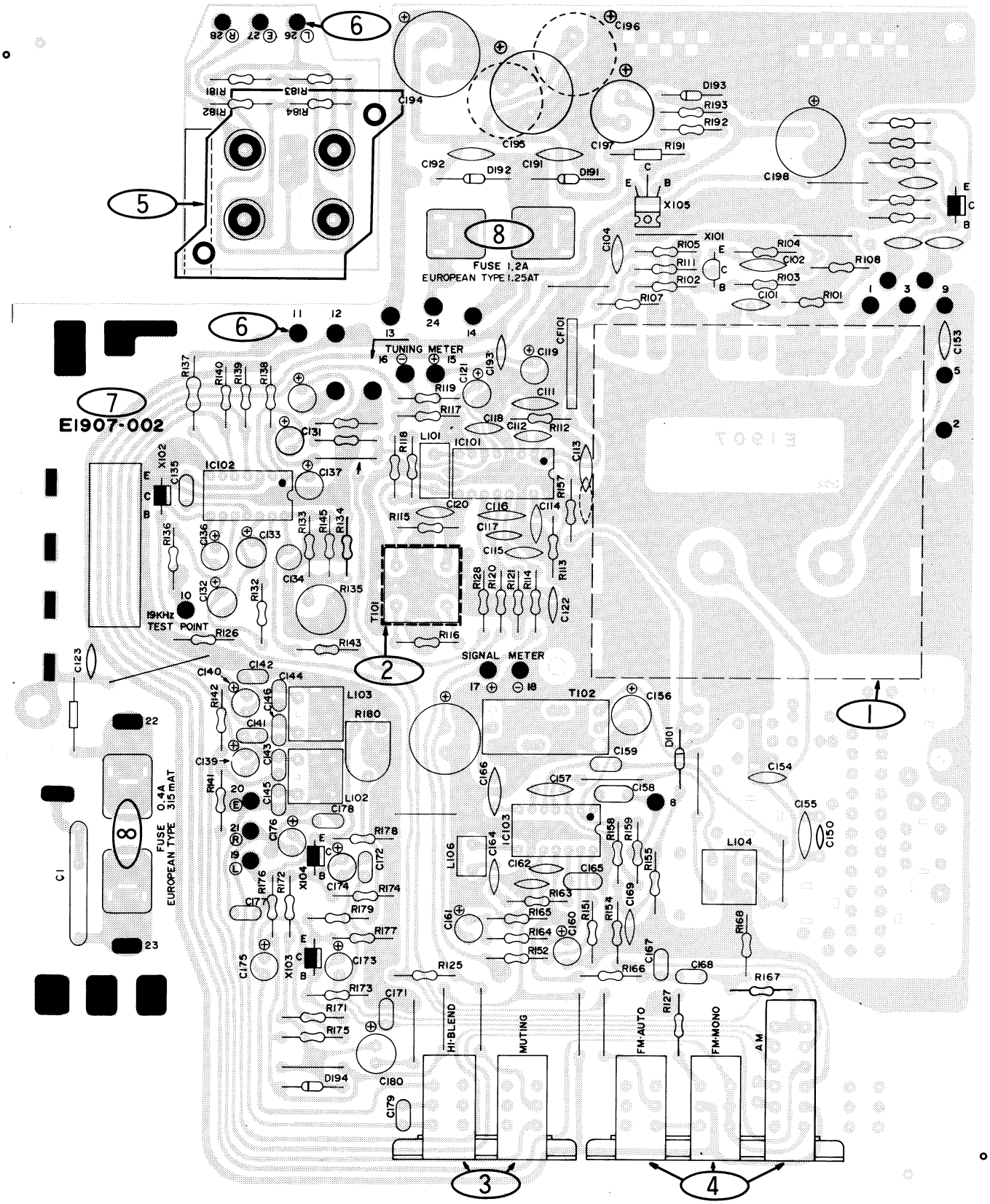


Fig. 15

Transistors

Ref. No.	Parts No.	Description	Pc	Ft
X101	2SC710(B)	Silicon, Mitsubishi	200mW	200MHz
X102	2SC458(C)	Silicon, Hitachi	〃	230MHz
X103	2SC458LG(C)	〃 〃	〃	〃
X104	2SC458LG(C)	〃 〃	〃	〃
X105	2SD325(D) or (E)	Silicon, Sanyo	10W	8MHz

X102 : 2SC458(C) or 2SC1344(D)
X103, 104 : 2SC458LG(C) or 2SC1344(D)

ICs

Ref. No.	Parts No.	Parts Name	Description
IC101	HA1137W	I.C.	FM-IF Hitachi
IC102	HA1156	I.C.	FM-MPX Hitachi
IC103	HA1151	AM Tuner I.C.	AM Hitachi

Resistors

Ref. No.	Parts No.	Parts Name	Description
R101	QRD141J-101	Carbon Resistor	100Ω ¼W
R101	〃 -100	〃	10Ω 〃
R102	〃 -123	〃	12kΩ 〃
R103	〃 -473	〃	47kΩ 〃
R104	〃 -102	〃	1kΩ 〃
R105	〃 -331	〃	330Ω 〃
R107	〃 -100	〃	10Ω 〃
R108	〃 -471	〃	470Ω 〃
R111	〃 -221	〃	220Ω 〃
R112	〃 -331	〃	330Ω 〃
R113	〃 -104	〃	100kΩ 〃
R114	〃 -183	〃	18kΩ 〃
R115	〃 -562	〃	5.6kΩ 〃
R116	〃 -272	〃	2.7kΩ 〃
R117	〃 -221	〃	220Ω 〃
R118	〃 -822	〃	8.2kΩ 〃
R119	〃 -123	〃	12kΩ 〃
R120	〃 -222	〃	2.2kΩ 〃
R121	〃 -473	〃	47kΩ 〃
R125	〃 -103	〃	10kΩ 〃
R126	〃 -103	〃	10kΩ 〃
R127	〃 -104	〃	100kΩ 〃
R128	〃 -100	〃	10Ω 〃
R132	〃 -102	〃	1kΩ 〃
R133	〃 -183	〃	18kΩ 〃
R134	〃 -153	〃	15kΩ 〃
R135	QVP4A0B-472	Variable Resistor	4.7kΩ 0.15W (VCO)
R136	QRD141J-105	Carbon Resistor	1MΩ ¼W
R137	QRD126J-181	Unflamable Resistor	180Ω ½W
R138	QRD141J-101	Carbon Resistor	100Ω ¼W

Ref. No.	Parts No.	Parts Name	Description
R139	QRD141J-562	Carbon Resistor	5.6kΩ ¼W
R140	" -562	"	5.6kΩ "
R141	" -472	"	4.7kΩ "
R142	" -472	"	4.7kΩ "
R143	" -104	"	100kΩ "
R145	" -154	"	150kΩ "
R151	" -332	"	3.3kΩ "
R152	" -222	"	2.2kΩ "
R154	" -100	"	10Ω "
R155	" -122	"	1.2kΩ "
R157	" -474	"	470kΩ "
R158	" -151	"	150Ω "
R159	" -472	"	4.7kΩ "
R163	" -331	"	330Ω "
R164	" -103	"	10kΩ "
R165	" -103	"	10kΩ "
R166	" -272	"	2.7kΩ "
R167	" -153	"	15kΩ "
R168	" -334	"	330kΩ "
R171	" -474	"	470kΩ "
R172	" -474	"	470kΩ "
R173	" -683	"	68kΩ "
R174	" -683	"	68kΩ "
R175	" -123	"	12kΩ "
R176	" -123	"	12kΩ "
R177	" -122	"	1.2kΩ "
R178	" -122	"	1.2kΩ "
R179	" -102	"	1kΩ "
R180	QVP8A0B-054	Variable Resistor	50kΩ 0.1W
R181	QRD141J-223	Carbon Resistor	22kΩ ¼W
R182	" -223	"	22kΩ "
R183	" -153	"	15kΩ "
R184	" -153	"	15kΩ "
R191	QRC121K-100	Composition Resistor	10Ω ½W
R192	QRD141J-471	Carbon Resistor	470Ω ¼W
R193	" -471	"	470Ω "

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C101	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C102	QCZ0107-473A	"	0.047μF/50V
C104	QCF11HP-223A	"	0.022μF/50V
C111	QCZ0107-473A	"	0.047μF/50V
C112	QCF11HP-223A	"	0.022μF/50V
C113	QCZ0107-473A	"	0.047μF/50V
C114	QCF11HP-223A	"	0.022μF/50V
C115	"	"	
C116	QCZ0107-473A	"	0.047μF/50V
C117	QCF11HP-223A	"	0.022μF/50V
C118	QCS11HJ-151	"	150PF/50V
C119	QEW41HA-105	Electrolic Capacitor	1μF/50V
C120	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C121	QEW41EA-475	Electrolic Capacitor	4.7μF/25V
C122	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V

Ref. No.	Parts No.	Parts Name	Description
C123	QCZ0107-473A	Ceramic Capacitor	0.047μF/50V
C131	QEW41EA-475	Electrolic Capacitor	4.7μF/25V
C132	QEB41EM-106	L.L.C. Electrolic Capacitor	10μF/25V
C133	QEB41HM-224	〃	0.22μF/50V
C134	QFS42BJ-471M	Polystyrol Capacitor	470PF ±5%/125V
C135	QFM41HK-473	Mylar Capacitor	0.047μF/50V
C136	QEB41HM-105	L.L.C. Electrolic Capacitor	1μF/50V
C137	QEW41HA-105	Electrolic Capacitor	1μF/50V
C139	QEW41HA-474	〃	0.47μF/50V
C140	〃	〃	〃
C141	QFM41HK-272	Mylar Capacitor	0.0027μF/50V
C142	〃	〃	〃
C143	QFM41HK-182	〃	0.0018μF/50V
C144	〃	〃	〃
C145	QFM41HK-152	〃	0.0015μF/50V
C146	〃	〃	〃
C147	QFM41HK-472	〃	0.0047μ/50V
C148	〃	〃	〃
C150	QCS11HJ-100	Ceramic Capacitor	10PF/50V
C153	QCS11HJ-8R0	〃	8PF/50V
C154	QCS11HJ-150	〃	15PF/50V
C155	QFS42BJ-331	Polystyrol Capacitor	330PF ±5%/125V
C156	QEW41CA-476	Electrolic Capacitor	47μF/16V
C157	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C158	QCZ0107-473A	〃	0.047μF/50V
C159	QFM41HK-103	Mylar Capacitor	0.01μF/50V
C160	QEW41HA-105	Electrolic Capacitor	1μF/50V
C161	QEW41EA-475	〃	4.7μF/25V
C162	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C163	〃	〃	〃
C164	QCS11HJ-331	〃	330PF/50V
C165	QFM41HK-102	Mylar Capacitor	0.001μF/50V
C166	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C167	QFM41HK-103	Mylar Capacitor	0.01μF/50V
C168	QFM41HK-223	〃	0.022μF/50V
C169	QCF11HP-223A	Ceramic Capacitor	0.022μF/50V
C171	QFM41HK-472	Mylar Capacitor	0.0047μF/50V
C172	〃	〃	〃
C173	QEW41HA-474	Electrolic Capacitor	0.47μF/50V
C174	〃	〃	〃
C175	〃	〃	〃
C176	〃	〃	〃
C177	QFM41HK-122	Mylar Capacitor	0.0012μF/50V
C178	〃	〃	〃
C179	QFM41HK-102	〃	0.001μF/50V
C191	QCF11HP-103A	Ceramic Capacitor	0.01μF/50V
C192	〃	〃	〃
C193	QCZ0107-473A	〃	0.047μF/50V
C194	QEW41CA-108	Electrolic Capacitor	1000μF/16V
C195	〃	〃	1000μF/16V
C196	QEW41EA-477	〃	470μF/25V
C197	QEW41EA-227	〃	220μF/25V
C198	QEW41CA-227	〃	220μF/16V
C1	QFH53AM-103	Metallized Mylar Cap.	0.01μF/1000V ("U" TYPE ONLY)

Diodes

Ref. No.	Parts No.	Parts Name	Description	PC
D191	SIB01-02	Si. Diode	Fuji	IA.
D192	〃	〃	〃	〃
D193	E0771-11	Zener Diode	JRC	500mW

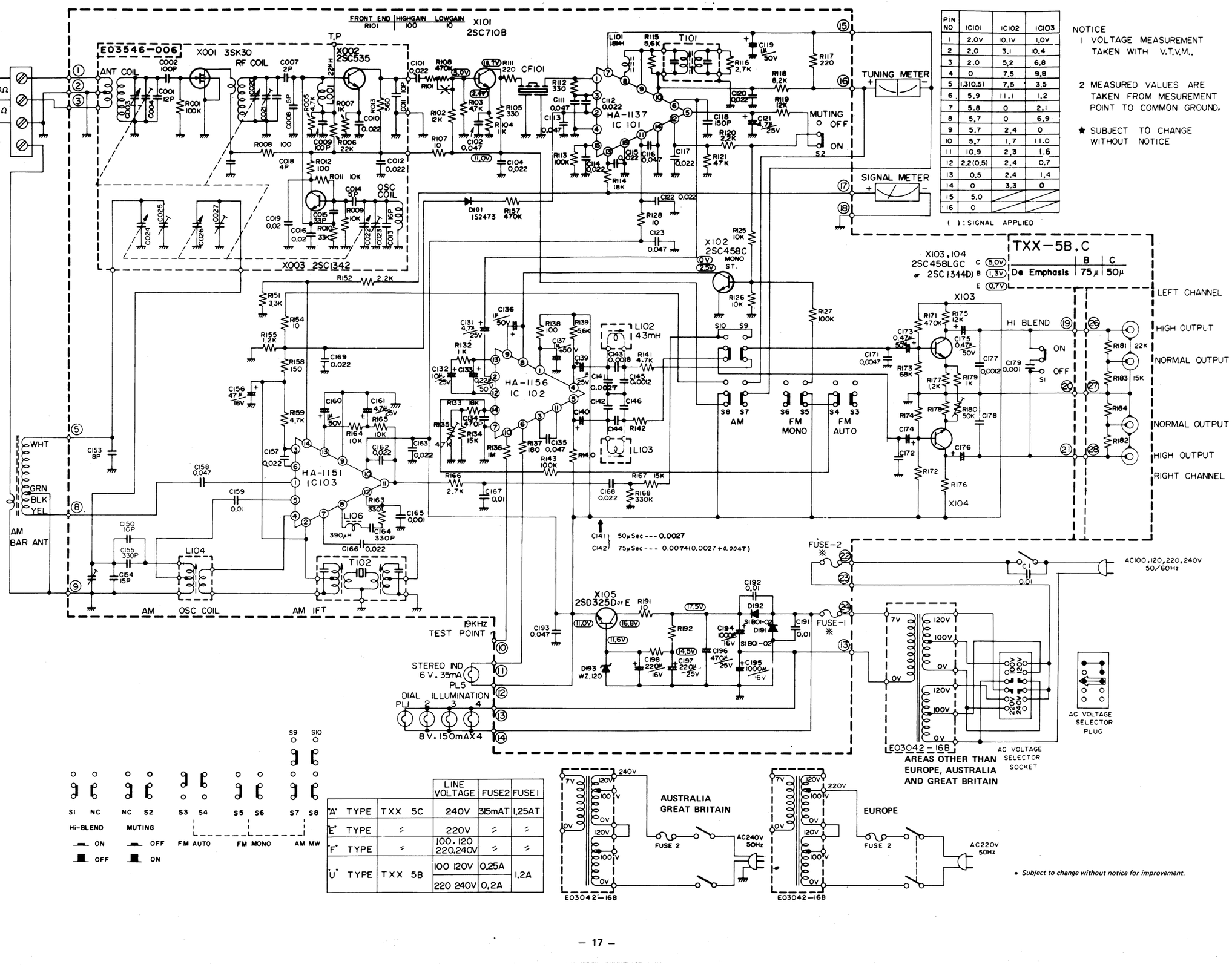
Others

Ref. No.	Parts No.	Parts Name	Description
L101	E03522-180J	FM DET Coil	18mH
L102	E03407-005	MPX. Coil	
L103	〃	〃	
L104	E03079-13	AM Osc. Coil	
L106	E03522-391KY	Choke Coil	390μH
T101	E03134-020	FM DET Trans	
T102	E03613-001	AM IFT	
CF101	E03609-001	Ceramic Filter	CF-107-D
1	E03546-006	FM Front End.	
2	E49829-002	Shield Case	
3	QSP0221-004	Push Switch	AM-FM
4	QSP0230-006	〃	Muting-Hi Blend
5	E03591-41B	Pin Jack	output terminal 4P
6	E43727-002	Tab	
7	E1907-002	Circuit Board	
8	E45524-001	Contact Clip	"U" Type Only TXX-5B
	E48965-002	〃	"A","E","F" Type TXX-5C

Accessories

Parts Name	Parts No.		
	"U" TYPE	"E","F" TYPE	"A" TYPE
JT-V310 Instruction Book	E30580-486A	E30580-486A	E30580-486A
Signal Cord	E03479-001	E03479-001	E03479-001
Built In Ant.	E03614-002	E03614-002	E03614-002
Viny Tie	Q04141-3H	Q04141-3H	Q04141-3H
FUSE	QFM60R1-R25	————	————
〃	QMF60R1-R20	————	————
Envelope (For Fuse)	E64208-001	————	————
Caution Tag	E41457	————	————
Envelope	E64207-001	E64207-001	E64207-001

Schematic Diagram of Model JT-V310



PIN NO	IC101	IC102	IC103
1	2.0V	10.1V	1.0V
2	2.0	3.1	10.4
3	2.0	5.2	6.8
4	0	7.5	9.8
5	1.3(0.5)	7.5	3.5
6	5.9	11.1	1.2
7	5.8	0	2.1
8	5.7	0	6.9
9	5.7	2.4	0
10	5.7	1.7	11.0
11	10.9	2.3	1.6
12	2.2(0.5)	2.4	0.7
13	0.5	2.4	1.4
14	0	3.3	0
15	5.0		
16	0		

( ) : SIGNAL APPLIED

NOTICE
1 VOLTAGE MEASUREMENT TAKEN WITH V.T.V.M..

2 MEASURED VALUES ARE TAKEN FROM MESUREMENT POINT TO COMMON GROUND.

★ SUBJECT TO CHANGE WITHOUT NOTICE

		LINE VOLTAGE	FUSE2	FUSE1
"A" TYPE	TXX 5C	240V	315mAT	1.25AT
"E" TYPE	〃	220V	〃	〃
"F" TYPE	〃	100. 120 220.240V	〃	〃
"U" TYPE	TXX 5B	100 120V	0.25A	1.2A
		220 240V	0.2A	

C141 } 50μSec --- 0.0027
C142 } 75μSec --- 0.0074(0.0027+0.0047)

• Subject to change without notice for improvement.

JT-V310
No. 2354

List of Other Parts

Ref. No.	Parts No.	Parts Name	Description
1	QMC9004-001	V.S. Socket	"F","U" Type
2	E49928-001	Bracket	"
3	QMC9005-001	V.S. Plug	"
4	SBSB3012Z	Screw	"
5	SBSB3008M	Screw	"
6	LPSP3008ZS	Screw	"
7	E44182-038	Stud	"
8	WNS300H	Washer	"
9	SPSP3012MS	Screw	"
10	QMF60S1-1R2	Fuse	FUSE-1 "U" Type Only
10	QMF51A2-1R25	"	" "A","E","F" Type
11	QMF60R1-R25	"	FUSE-2 "U" Type Only 100-120V
11	QMF60R1-R20	"	" "U" Type Only 200-240V
11	QMF51A2-R315	"	" "A","E","F" Type

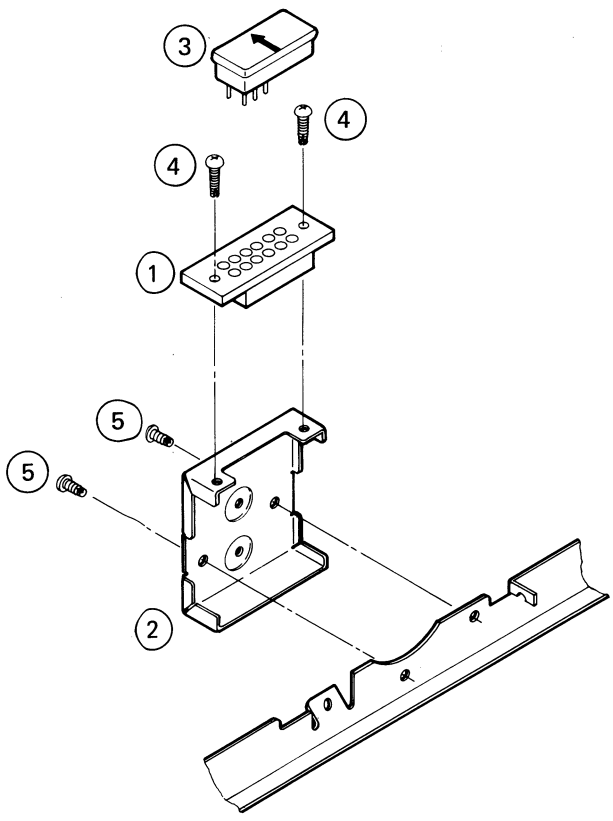


Fig. 17

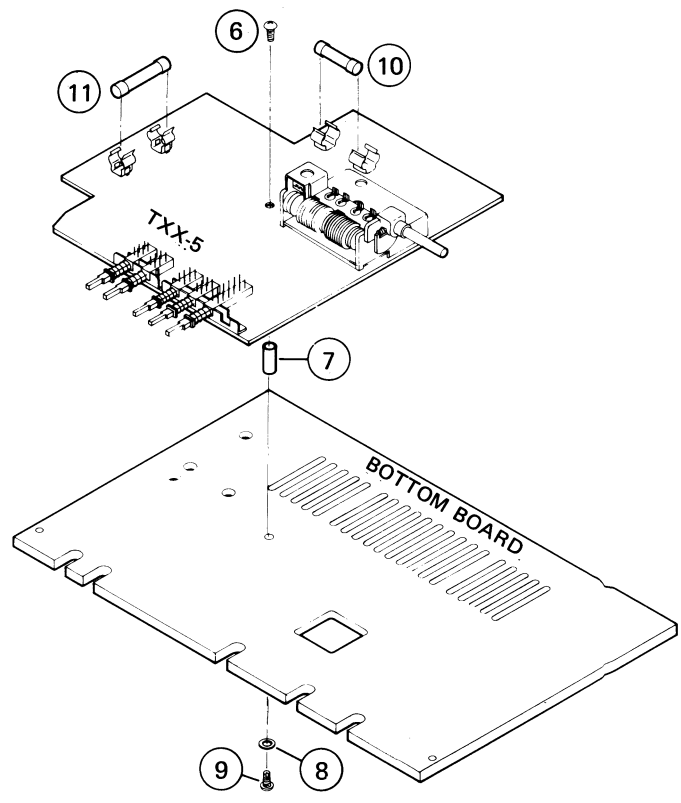


Fig. 18